MIR-MOVSUMOV, Ismail Agayevich; MATYS, Mikhail Nikiforovich; SHAPIRO, Solomon Il'ich; RUBTSOV, Aga-Bala Balakishi ogly; ASHRAFOV, M.A., redaktor; SHTEYNGEL', A.S., redaktor izdatel'stva

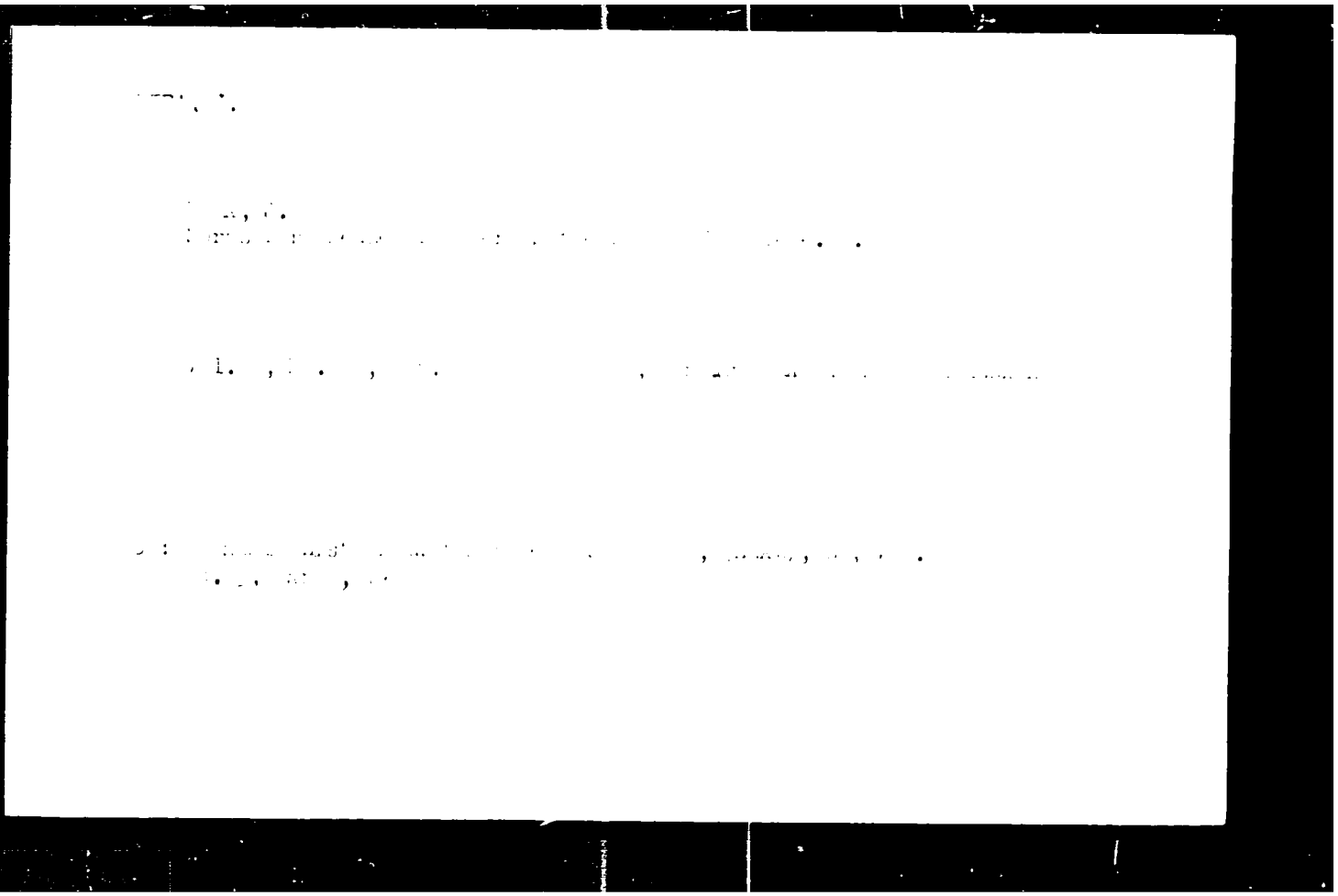
[Progressive practices of a group in the F.Dzerzhinskii Plant] Peredovoi opyt kollektiva zavoda im. F.Dzerzhinskogo. Baku, Azerbaidzhanskoe gos.izd-vo neft. i nauchno-tekhn.lit-ry, 1957. 205 p. (MLRA 10:9)
(Petroleum industry--Equipment and supplies)
(Machinery industry)

OLTEANU, Maria; MIRA, Ecaterina; MOLDOVAN, T.

Separation of common metals by means of naphthenic acids from the solutions obtained by lye-washing of pyrite ashes. Rev chimie M petr 14 no.6:318-323 Je '63.

MIRA, Ferenc; ALMADI, Jozsef; MOLNAR, Ferenc; PINTER, Antal; SZUCS, Ervin

Industrial boiler types in the Soviet Union. Energia es atom 14 no.12: 517-527 D '61.



MIRA, Janos

Power-supply in public health organization. Nepegeszsegugy 36 no.1:19-21 Jan 55.

(HOSPITAL ADMINISTRATION
power supply management & improvement in Hungary.)
(ELECTRICITY
power supply in health institutions in Hungary.)

[redacted]

Let us save energy! [redacted]

[redacted] Budapest, Hungary, Vol. 1[redacted], No. 9/10, Sept./Oct. 1958.

Monthly list of East European Accessions (EEAI) LC, Vol. [redacted], No. [redacted], [redacted]. Uncla.

MIRA, J.

Power results in the Soviet Union. p. 593

ENERGIA ES ATOMTECHNIKA. (Energiagazdalkodasi Tudomanyos Egyesulet)
Budapest Hungary

Vol. 11, no. 9/10/, Sept./Oct. 1958

Monthly list of East European Accessions (EEAI) LC. VOL. 8, no. 7, July 1959

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MIRA, J.

Work of the Peo le's Economic Council of Moscow in improving power economy of industrial enterprises. p. 59h

ENERGIA ES ATOMTECHNIKA. (Energiagazdalkodasi Tudomanyos Egyesulet) Budapest, Hungary

Vol. 11, no. 9/10, Sept./Oct. 1958

Monthly list of East European Accessions (EEAI) LC., VOL. 8, no. 7, 1959

Uncl.

MIRA, J.

"Economic evaluation of the HK-combined combustion system." p. 159.

ENERGIA ES ATOMTECHNIKA. (Energiagazdalkodasi Tudomanyos Egyesulet). Budapest, Hungary, Vol. 12, No. 2/3, Feb./Mar. 1959.

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VIRA, J.

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Mira, J.

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ENERGIA ES ATOMTECHNIKA. (Energiagazdalkodasi Tudomanyos Egyesulet)
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Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

MIRA, Janos

Some directives on the designing of the power plants of chemical industry enterprises. Magy kem lap 15 no.2:66-70 F '60.

1. Orszagos Energiagazdalkodasi Hatosag.

MIRA, Janos

Some problems on the use of basic energy carriers in Rumania.
Ipari energia 2 no.3:66-67 Mr '61.

1. OEG.

MIRA, Janos, okl.gepeszmernok

The role of petroleum products in energy economy.
Ipari energia 2 no.6:137-139 Je '61.

1. MIM Orszagos Energiagazdalkodasi Hatosag.

MIRA, Janos

Fundamental principles of calculating the efficiency in the investments in power engineering in the Soviet Union.
Energia es atom 14 no.3:106-109 Mr '61.

1. Orszagos Energiagazdalkodasi Hatosag.

MIRA, Janos

Some questions of mechanical application of gas turbines.
Energia es atom 14 no.3:137-138 Mr '61.

MIRA, Janos

Development of joint electric power in Poland. Ipari energia 3 no.9: 189-196 S '62.

MIRA, Janos

Use of bad quality coals in central heating boilers in the German Democratic Republic. Epuletgepeszet 11 no.3:117-118 Je '62.

MIRA, Janos, okl. gepeszmernok

Application of magnetic and electromagnetic water treatment in the low capacity Soviet industrial boilers. Energia es atom 15 no.1: 10-12 Ja '62.

1. Orszagos Tervhivatal, Budapest.

(Russia—Boilers) (Electromagnetism)

ALMADI, Jozsef; MIRA, Janos; MOLNAR, Ferenc; PINTER, Antal; SZUCS, Ervin

Types of industrial boilers in the Soviet Union.II. Energia es atom 15 no.3:113-119 '62.

MIRA, Janos

Some characteristic technical-economic indexes concerning the heat power services of the city of Moscow. Energia es atom 15 no.4:162-163 Ap '62.

1. Orszagos Tervhivatal.

MIRA, Janos

Development of the connected electri: power production in the United States and some European countries. Ipari energia 3 no.3:58-60 Mr '62.

MIRA, Janos, okleveles gepeszmernok

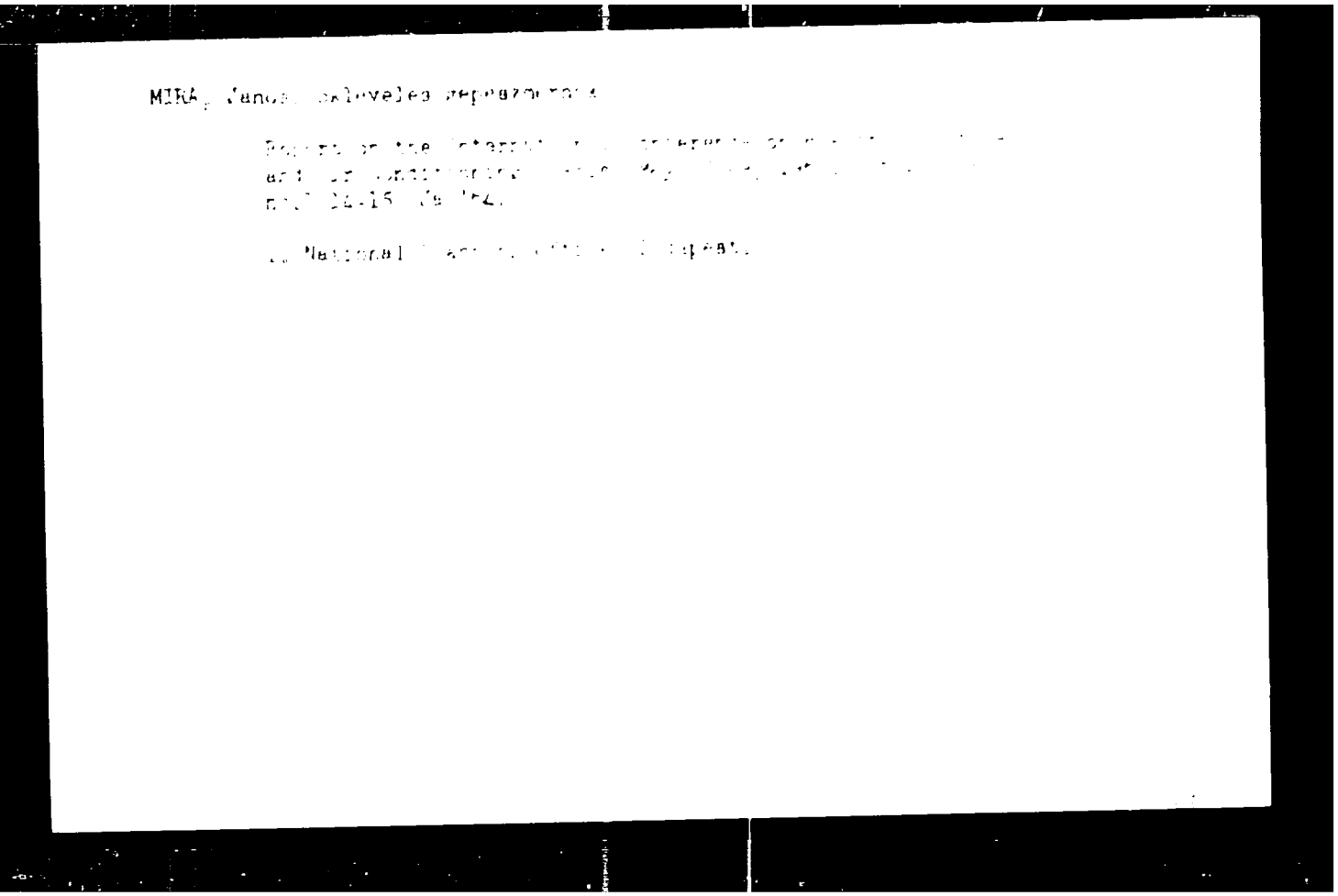
An account of the International Conference on Heat Engineering held in Paris, May 21-23, 1962. Ipari energia [illegible]:5-7 Ja'63.

1. Orszagos Tervhivatal.

MIRA, Janos, okleveles gepeszmernok

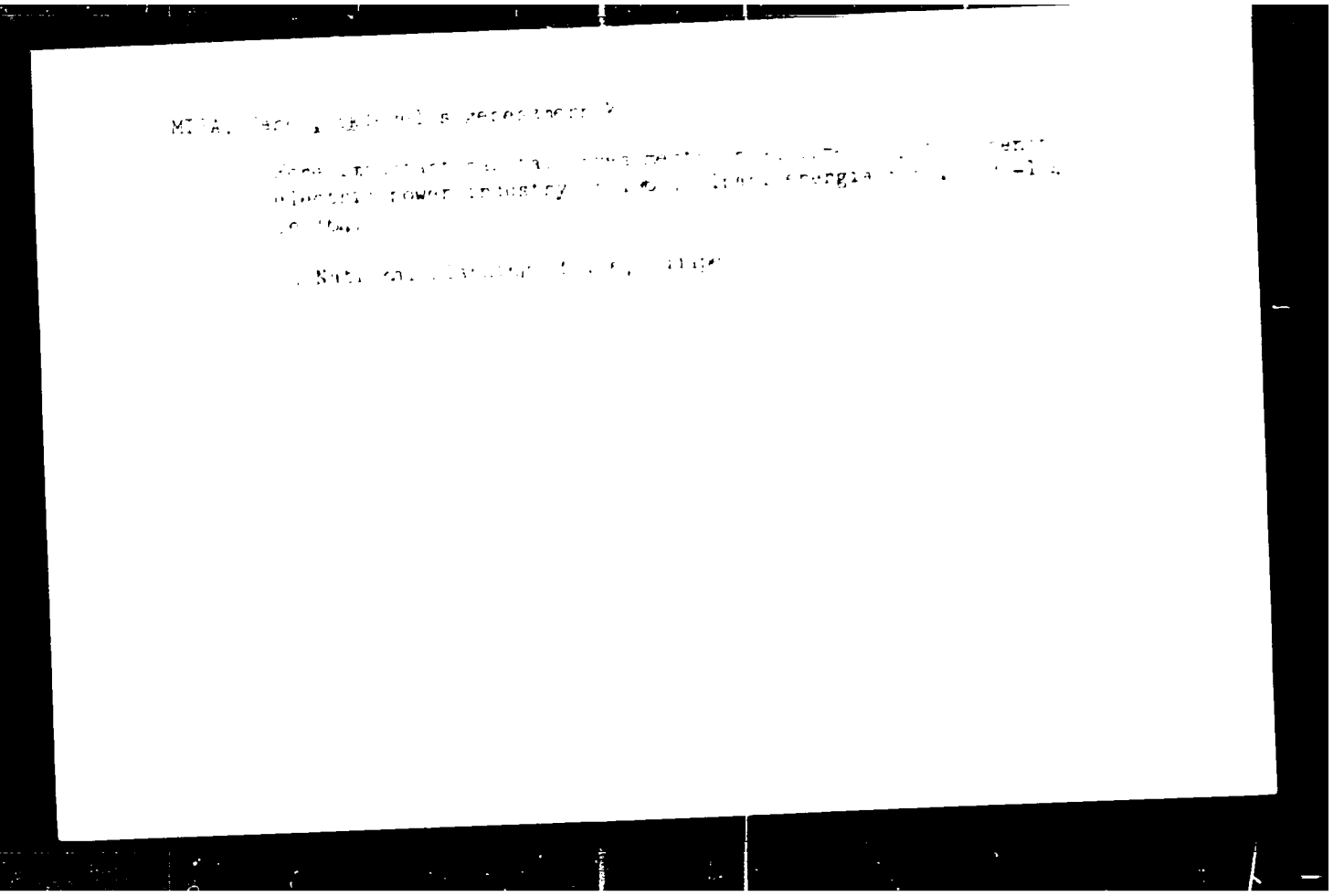
Present state of constructing condensation thermal plants in Poland.
Energia es atom 16 no.3:102-109 Mr '63.

1. Orszagos Tervhivatal.



MIRA Janos

Lower limit of the economy of heat and electric power production in counterpressure heat supply power plants. Ipari energia [illegible] no.3.t? [illegible]



MIHA, [illegible], oklevelesgepeszmernok

[illegible]lation of economical efficiency in the construction of heat power plants in Poland. Energia es atom 17 no. [illegible] 75-80 F '64.

1. Orszagos Tervhivatal.

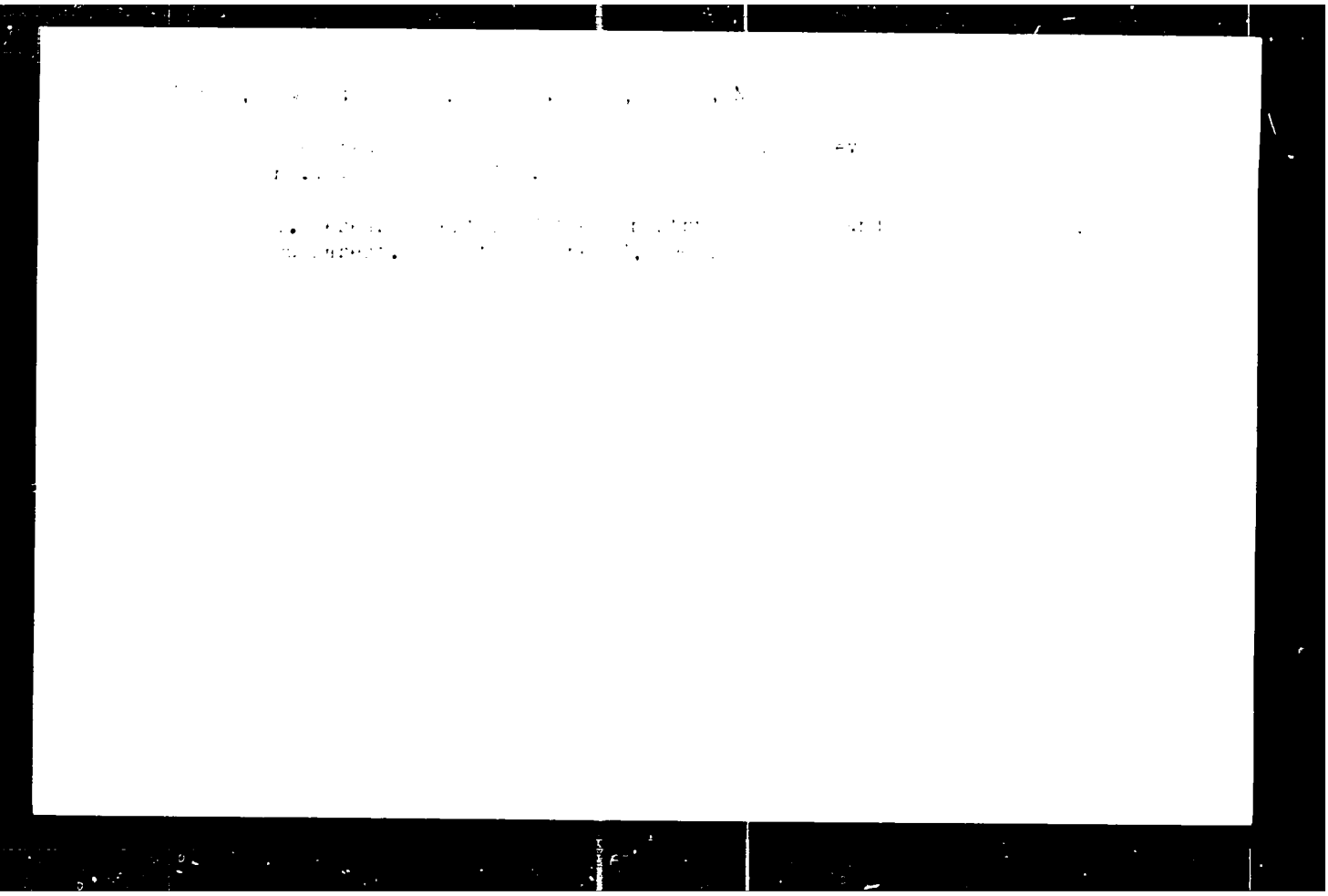
MIRA, Janos, okleveles gepeszmernok

Evaluating the efficiency of investments which have the same purpose but result in different savings in power economy. Energia es atom 17 no. 8:352-357 Ag '64.

1. National Planning Office, Budapest.

Mira, Keler-Bačoka

[illegible] serum. Keler-Bačoka Mira and Milena Dežić-Dušanka (Med. Fac., Zagreb, Yugoslavia). *Acta Med. Scand.* 149, 237-42 (1954).—A method is described for detg. photometrically the γ fraction in serum, by coagulating this fraction with $HgCl_2$ buffered at pH 7.2. E. Morgulis



HORER, Oswald; THOMAS, Ernest; MIRA, Maria S.; NICOLAU, Claude

Free radicals in enzymatic reactions. Pt.3. Studii cerc chim 13 no.12:913-921 D '64.

1. Laboratory of Physical Chemistry, Institute of Inframicrobiology of the Rumanian Academy, Bucharest, 285 Sos. Mihai Bravu (for Horer). 2. Research Center of the Ministry of Health and Social Welfare, 37 C.A.Rosetti Street (for Thomas, Mira, Nicolau).

MIRA, O.P. [Mehra, O.P.]; DZHEKSON, M.L. [Jackson, M.L.]; KUZEMKINA, Ye.N. [translator]

Removal of iron oxides from soils and clays by means of the dithionite-citric acid system with the buffer solution of sodium bicarbonate. Kora vyvetr. no.5:389-397 '63. (MIRA 16:7)

(Mineralogical chemistry)

ACC NR: AM6028923 (N)

Monograph

UR/

Yukhimenko, Anatoliy Ivanovich; Berkovskiy, Boris Semenovich; Mirabel', Petr Petrovich; Yefremov, Ion Ivanovich; Panchenkov, Anatoliy Nikolayevich; Belinskiy, Vissarion Grigor'yevich; Koval'chuk, Sergey Viktorovich; Putilin, Svetozar Ivanovich; Roman, Vasiliy Mikhaylovich; Miodushevskaya, Alla Vladimirovna; Tkachenko, Irina Petrovna; Ivchenko, Vladimir Moiseyevich

Problems and methods of hydrodynamics of underwater wings and propellers (Zadachi i metody girdodinamiki podvodnykh kryl'yev i vintov) Kiev, Izd-vo "Naukova dumka", 1966. 158 p. illus., biblio. (At head of title: Akademiya nauk Ukrainskoy SSR. Institut gidromekhaniki) 1,2000 copies printed.

TOPIC TAGS: dimensional flow, flow measurement, cavitation, ~~propulsion~~, ~~system~~, fluid mechanics, hydrodynamics, ships component, digital computer, computer calculation

PURPOSE AND COVERAGE: This book is intended for scientific and engineering personnel of research and design organizations specializing in high-speed hydrodynamics. The book discusses the hydrodynamics of bodies moving near an open surface, the discontinuity between liquids of different densitites, and the development of cavitation. There are

Card 1/2

ACC NR: AM6028923

74 references, 43 of which are Soviet.

TABLE OF CONTENTS [abridged]:

SUB CODE: 20, 09/ SUBM DATE: 01Mar66/ ORIG REF: 044/ OTH REF: 030

Card 2/2

MIRACKI, J., inz.

Needs of standards in the field of tooling of machine-tools.
Normalizacja P 28 no.12:571-576 D '60.

MIRACKI, Jerzy, inz.

"Normal and universal tools and holders for machining metals" by K.Bardadin, W.Natanson. Reviewed by Jerzy Miracki. Mechanik 35 no.6:359 Je '62.

MIRACKI, Wieslaw, mgr., inz.

Theoretical calculation of requirements for sizes of particular types. Normalizacja 29 no.11/12:515-522 '61.

(Standardization)

MIRACKI, Wieslaw, mgr inz.

On the way of accelerating the preparation cycles of production; the center for Assembling and Lending; Universal Combine Tools. Przegl techn no.613 7 F '62.

MIRACKI, Wieslaw, mgr inz.

Composed instruments; first items assembled in the Warsaw center. Mechanik 35 no.1 :670-671 D '6.

1. Biuro Zbytu Obrabiarek i Narzedzi, Warszawa.

[illegible], inz.

Assembling and lending centers for [illegible] universal composition instruments. Mechanik Suppl.:Wiad przem [illegible] 5 no.5:297-298 My'64.

USSR/Mechamics - Hydromechanics FD-2484

Card 1/1 Pub 85-11/19

Authors : Kasimov, A. F. and Miradzhanzade, A. Kh.

Title : Various forms of the equations of motion of viscous-plastic liquids and the law of hydrodynamic similarity

Periodical : Prikl. Mat. i Mekh., 19, 348-352, May-June 1955

Abstract : The author states that for the determination of hydraulic resistances in the motion of viscous-plastic liquids (clayey solution, cement solution, peat hydromass) and for the derivation of dimensionless parameters, the basic differential equations of motion are necessary. These equations are derived and are found to be dependent upon the Laplacian operator. The author shows how the various dimensionless parameters can be derived from the equations.

Institution: --

Submitted : May 5, 1954

MIRAINASHVILI, G.M.; K[illegible], M.Sh.; A[illegible], I.V.

Ion source for use in a mass spectrometer for [illegible] three solid-phase specimens. [illegible] no.[illegible]

(MIRA [illegible])

MIRAKHMEDOV, A.A.

Case of large umbilical hernia. Med. zhur. Uzb. no.1:71-72 Ja '61.
(MIRA 14:6)

1. Iz khirurgicheskogo otdeleniya Uzunskoy bol'nitsy, Surkhan-Dar'inskoy oblasti.

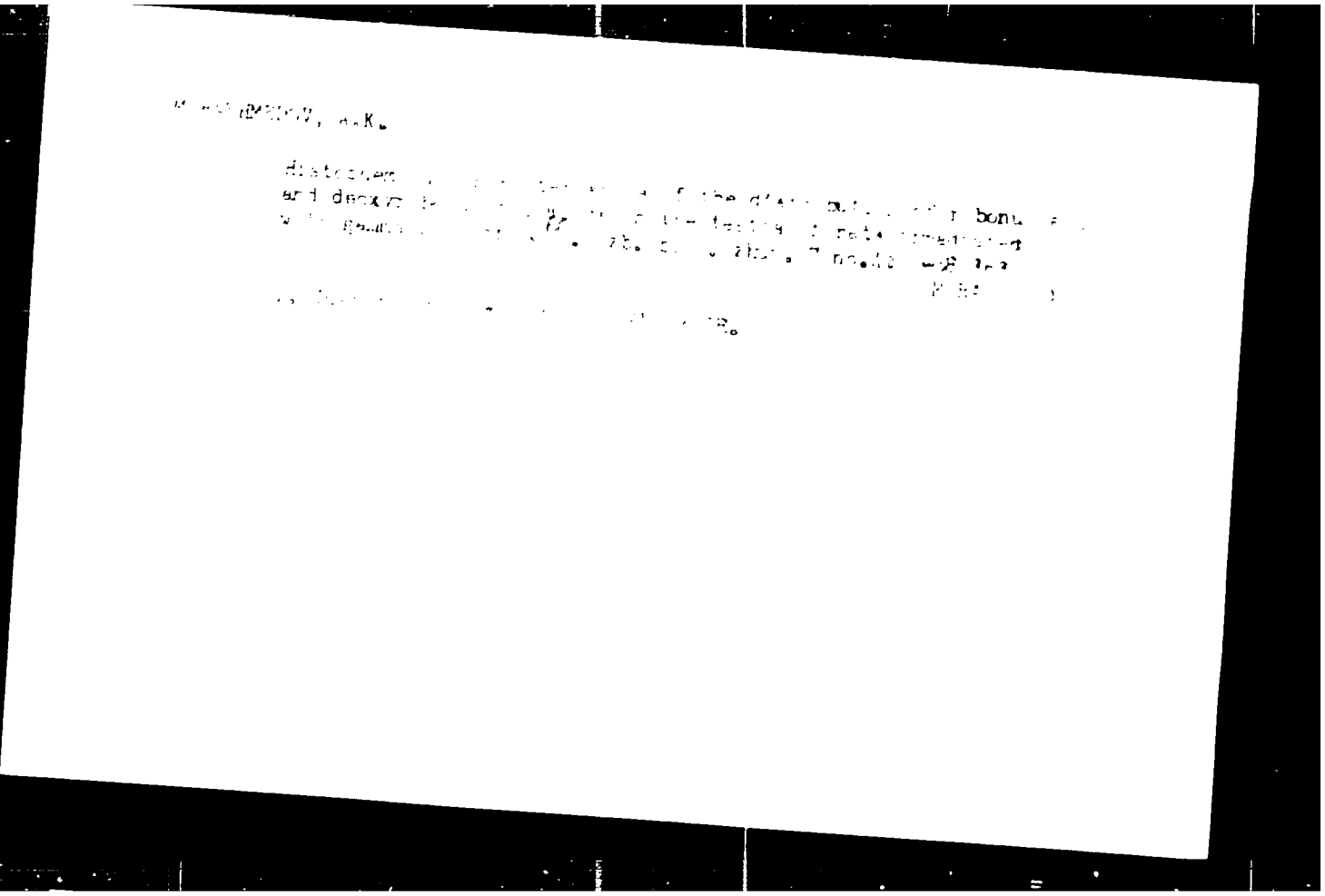
(HERNIA)

MIRAKHMEDOV, A.A., vrach; TER-MINOSYAN, E.P., vrach.; LOGINOVA, G., operatsionnaya sestra

Disinfection of the hands of a surgeon, obstetrician, gynecologist and their assistants in a rural locality. Med.sestra 21 no.12: 46-49 D '62. (MIRA 16:4)

1. Iz Uzunskoy uchastkovoy bol'nitsy Surkhan-Dar'inskoy oblasti Uzbekskoy SSR.

(DISINFECTION AND DISINFECTANTS)



MIRAKHMEDOV, A.K.

Histochemical research data on polysaccharides in the testis of irradiated rats. Uzb. biol. zhur. 7 no.6:77-79 '63.
(MIRA 17:4)

1. Institut yadernoy fiziki AN UzSSR.

ACCESSION NR: AP4031758 S/0242/64/000/002/0045/0048

AUTHOR: Mirakhmedov, A. K.

TITLE: Investigation of the effects of fast neutron irradiation and Co-60 gamma-irradiation on sperm composition in rat testes

SOURCE: Meditsinskiy zhurnal Uzbekistana, no. 2, 1964, 45-48

TOPIC TAGS: gamma-irradiation effect, fast neutron irradiation. effect, sperm composition, testis weight change, spermatogonium, prespermatocyte, spermatocyte, spermatid, spermatozoon, radiation sensitivity, spermatogenesis restoration

ABSTRACT: The effects of gamma-irradiation and fast neutron irradiation on sperm and the testis were compared in two groups of white rats (150 to 220 g). The first group of animals was gamma-irradiated (Co-60 unit, 26 to 33 r/sec) with a single 400 r dose, and the second group was irradiated with fast neutrons (VVP-s reactor, 2000 kwt) for 1 hr. Animals were killed 1, 3, 4, 7, 14, 30, 60, and 90 days after irradiation. Radiation damage was determined by changes in testis weight and in sperm. After testes were weighed, testes

Card 1/3

ACCESSION NR: AP4031758

sections were prepared to find the number of sperm cells in all developmental stages by a modification of Fogg and Cowing's method. The method is based on a four-point rating system of spermatogonia, prespermatocytes, spermatocytes, spermatids, and spermatozoons found in the sperm ducts. An analysis of the findings shows that the weight of the testis starts to decrease on the first day after both types of irradiation and continues to decrease reaching its lowest weight on the 60th day. The number of spermatogonia was found to decrease more markedly than other cellular elements for both types of irradiation. The lowest number of prespermatocytes was found on the 30th day and the highest number on the 60th day for both types of irradiation. With fast neutron irradiation the number of spermatocytes decreases significantly on the first day, and with gamma-irradiation it decreases on the 14th day. Spermatids disappear on the 30th day after fast neutron irradiation and on the 60th day after gamma-irradiation. Generally fast neutron irradiation is more effective than gamma-irradiation. The highest loss of sperm cells and lowest testis weight are found on the 60th day. The immature spermatogonia are most sensitive to irradiation. Spermatogenesis is partially restored by the 90th day. Orig. art. has: 3 figures.

Card 2/3

ACCESSION NR: AP4031758

ASSOCIATION: Laboratoriya radiatsionnoy tsitologii otdela biofiziki Instituta yadernoy fiziki AN UzSSR (Radiation Cytology Laboratory of the Biophysics Department of the Nuclear Physics Institute AN UzSSR)

SUBMITTED: 16May63 DATE ACQ: 30Apr64

SUB CODE: LS NR REF SOV: 007 ENCL: 00

OTHER: 003

Card 3/3

TURAKULOV, Ya.Kh.; MIRAKHMEDOV, A.K., MUKHAMEDOVA, Z.U.; KHAMRAYEVA, F.A.

Ascorbic acid and cholesterol content in the testes of rats at various stages of radiation injury. Uzb. biol. zhur. 8 no.4:14-18 '64.

1. Institut yadernoy fiziki AN UzSSR. (MIRA 18:7)

MIRAKHMEDOV, Kh.Sh. (Tashkent)

Primary skin grafting in treating malignant tumors. Vop. onk. 10 no.12 64. (MIRA 18:5)

1. Iz kafedry onkologii (zav. prof. B.I. Bronshteyn) Tashkentskogo instituta usovershenstvovaniya vrachey (rektor - K.S. Zaitov).

S/020/61/141/006 [illegible]
B103/B147

AUTHORS: Igonin, L. A., Mirakhmedov, M. M., Turchaninova, K. I., and Shabadash, A. N.

TITLE: Study of the infrared absorption spectra in the solidification process of resole phenol formaldehyde resin

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 141, no. 6, 1961, 1[illegible]

TEXT: The infrared absorption spectra of resole phenol formaldehyde resin were studied in the course of its solidification between 20 and 200°C. Commercial resole resin (production, Ref. 1: L. A. Igonin, M. M. Mirakhmedov, Plasticheskiye massy, No. 1 (1962) in print) was dried in vacuo as well as subjected to a molecular distillation at 80°C in a vacuum of about 10^{-4} mm Hg. Then, the resin was cold-pressed with 220 kg/cm², subsequently the mold was heated with a rate of 1 [illegible]°C/min to a given temperature at which it was kept for 15 min, and then cooled rapidly to room temperature. The pulverized resin was mixed with KBr powder and pressed in vacuo under a pressure of 10 tons/cm² to 1.4[illegible] mm thick sheets which were used as windows in the Hilger spectr[illegible] H-800

Card 1/3

Study of the infrared absorption... S/020/61/141/006/01[illegible]
B103/B147

for photographing spectra. It is concluded from the spectra that in creasing heating results in the following changes: The bands which are characteristic of the OH groups decrease owing to condensation of the resin. The wide band appearing at 1050 cm^{-1} corresponds to the stretching vibrations of the C-O ether bond. Its appearance is caused by the conversion of the methylol groups to ether bridges. This band decreases at 150°C and disappears completely at 170°C. The 1370 cm^{-1} band starts decreasing at 70°C. This is explained by reaction of the phenol-OH groups. The 1645 cm^{-1} band characteristic of the C=C bond [illegible] already at 130°C and increases with increasing solidification temperatures. At high solidification temperatures (170 - 220°C) the 1371 cm^{-1} band appears in the spectrum of solidified resins, which is attributed to the formation of methyl groups. It is concluded from the results that the number of OH groups decreases during solidification and that the bonds in the initial stages of solidification are [illegible]oxybenzyl ether formed by interaction between the metaylol groups. Presently, the decomposition of the ether bridges is accompanied by the formation of active centers the recombination of which leads to the formation of steric networks (resites). The radical decomposition mechanism

Card 2/3

Study of the infrared absorption ... S/020/61/141/006/015/021
B103/B147

of the ether bridge is confirmed by the phenol hydroxyl entering the solidification reaction and by the appearance of the methyl group due to the recombination processes of the free radicals forming. There are 1 figure and 7 references: 1 Soviet and 6 non-Soviet. The three references to English-language publications read as follows: R. E. Richards, H. W. Thompson, J. Chem. Soc., 1947, 1260; R. J. Grisenthwaite, R. F. Hunter, Appl. Chem., 6, 324 (1956); N. J. L. Megson, Phenolic Resin Chemistry, London 1958, p. 33

ASSOCIATION Nauchno-issledovatel'skiy institut plasticheskikh mass (Scientific Research Institute of Plastics)

PRESENTED July 21, 1961, by V. A. Kargin, Academician

SUBMITTED July 20, 1961

Card 3/3

IGONIN, L.A.; MIRAKHMEDOV, M.M.

Characteristics changes of the mechanical properties of resol phenol-formaldehyde resins taking place in the process of hardening. Plast.massy no.2:18-20 '62. (MIRA 15:2)
(Phenol condensation products)

RUBA[illegible], I.V.; MIRAKHME[illegible], [illegible]

[illegible]

[illegible]

USSR/[illegible] Commercial. Oil-Bearing. Sugar-Bearing. M.

Abs Jour : Ref Zhur Biol., No 18, 1958, 82427

Author : Mirakhmedov, S.M.

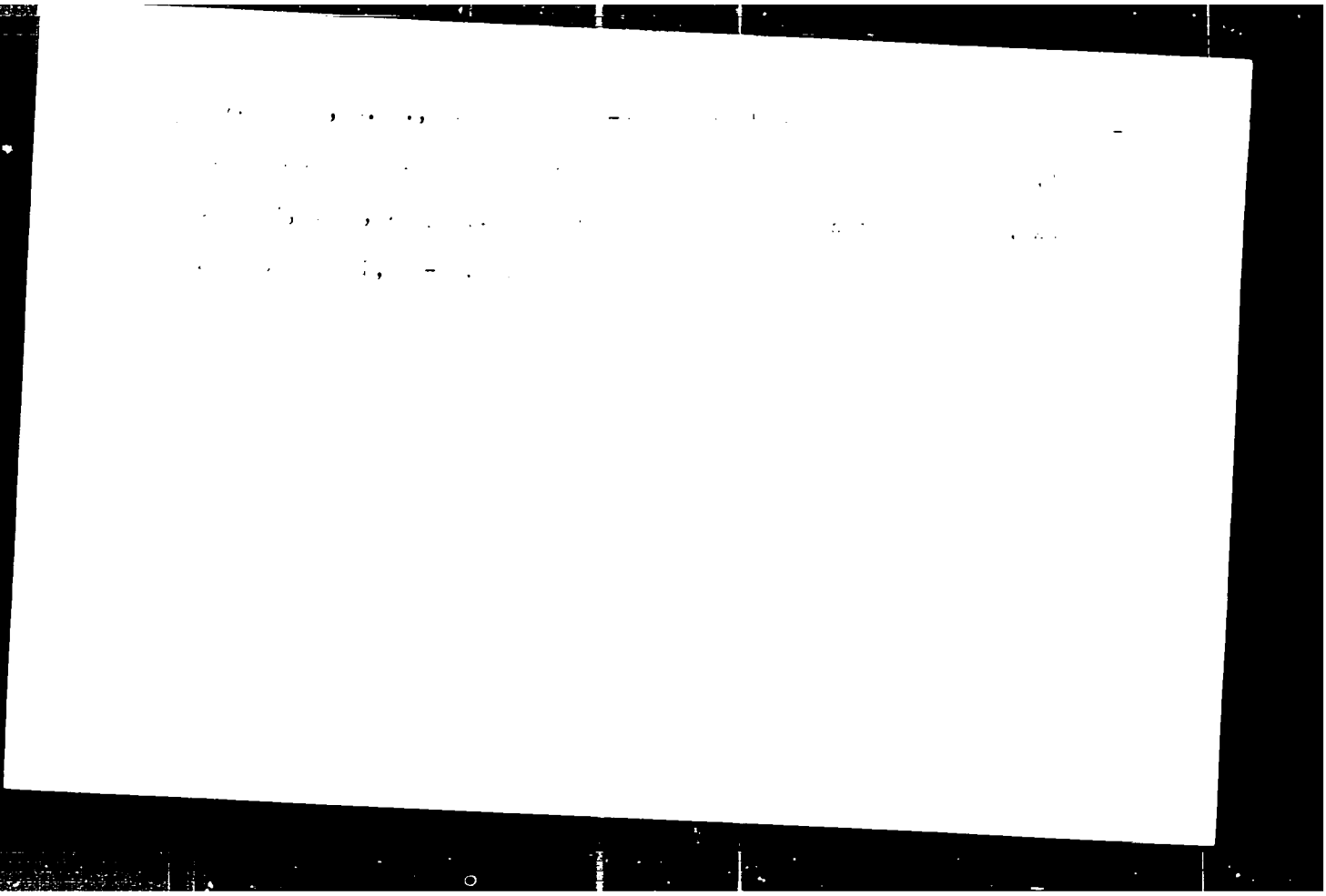
Inst : Academy of Sciences Uzbek SSR

Title : An Effective Method of Cotton Plant Grafting.

Orig Pub : UzSSR Fanlar Akad. dokladlari, Dokl. AN UzSSR, 1957, No 9, 57-60

Abstract : For the study of individual problems of vegetative hybridization a reliable method of grafting assuring good "taking" is indispensable. The method of cleft grafting carried out on identically and differently aged components (scion and stock) secured 70% of "takes". The highest percentage of "taking" was achieved owing to irrigation which was carried out following the grafting. The "tongue" grafting secures a change

Card 1/2



SADYKOV, S.S.; MIRAKHMEDOV, S.M.

Role of vegetative hybridization in the creation of new forms and varieties of cotton. Uzb.biol.zhur. no.2:8-15 '60. (MIRA 14:5)

1. Institut genetiki i fiziologii rasteniy AN UzSSR.
(COTTON BREEDING)

MIRAKHMEDOV, S.M., kand. biol. nauk

Developing cotton varieties relatively immune to wilt.
Agrobiologiia no.2:250-254 Mr-Ap '65. (MIRA 18:11)

1. Institut eksperimental'noy biologii AN Uzbekskoy SSR, Tashkent.

MIRAKHMEDOV, M. M.

Mirakhmedov, M. M. -- "The Permeability of the Blood-Barrier in Capillaries in Syphilis Patients and the Effect on It of Specific Therapy." Tashkent State Medical Inst imeni V. M. Molotov. Tashkent, 19[illegible]. (Dissertation for the Degree of Candidate in Medical Sciences).

So: Knizhnaya Letopis', No. 11, 19[illegible], pp 103-111.

EXCERPTA MEDICA Sec.13 Vol.11/1 Dermatology,etc.Jan57

276. MIRAKHMEDOV U. M. Chair of Skin and Venereol. Dis., Inst. of Med., Taschkent, USSR. "Permeability of the blood vessels cur.ng the treatment of patients with syphilis (Russian text) VESTN. VENER. DERM. 1955, 3 (38-41)

The investigations of the vessel wall permeability were conducted by the Landis method. A cuff was put round the arm and pressure of a 40 mm. mercury pile was applied for 30 min. The plasma-protein and its fractions were estimated before and after the application of pressure by means of the nephotoelectrometry. The changes in the plasma protein content were taken as indicative of the state of the vessel wall. Sixty patients with syphilis were investigated. The increase of the permeability of the capillaries (by the changes of the protein-fractions and the dry residue of the blood) was observed more often during the primary sero-positive stage, in the early secondary stage and also during a recurrence. After a course of treatment a normalization of the vessel-permeability was noticed. A better result was obtained with a course of penicillin followed by novarsenol-bismuth administration.

Kozhernikov - Leningrad

USSR / General Problems of Pathology. The Patho- U
physiology of the Infectious Process.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102486.

Author : Mirakhmedov, U. M.
Inst : Uzbekistan Scientific Research Skin-Venerologic Institute.
Title : The Permeability of Capillaries in Patients With Syphilis, Treated With Penicillin.

Orig Pub: Sb. tr. Uzbekist. n.-i. kozhno-venerol. in-ta, 1957, 6, 313-315.

Abstract: In 40 patients with syphilis, changes of permeability of capillaries (PC) in penicillin therapy were determined by means of the method of Lendis. In the process of treatment, PC increased; the content of protein in plasma and A/G almost did not

Card 1/2

MIRAKHMEDOV, [illegible].M., dotsent

Treponema pallidum immobilization reaction using N.M. Ov[illegible]'s simplified method. Vest. derm. i ven. no.1:54-56 '65. (MIRA [illegible])

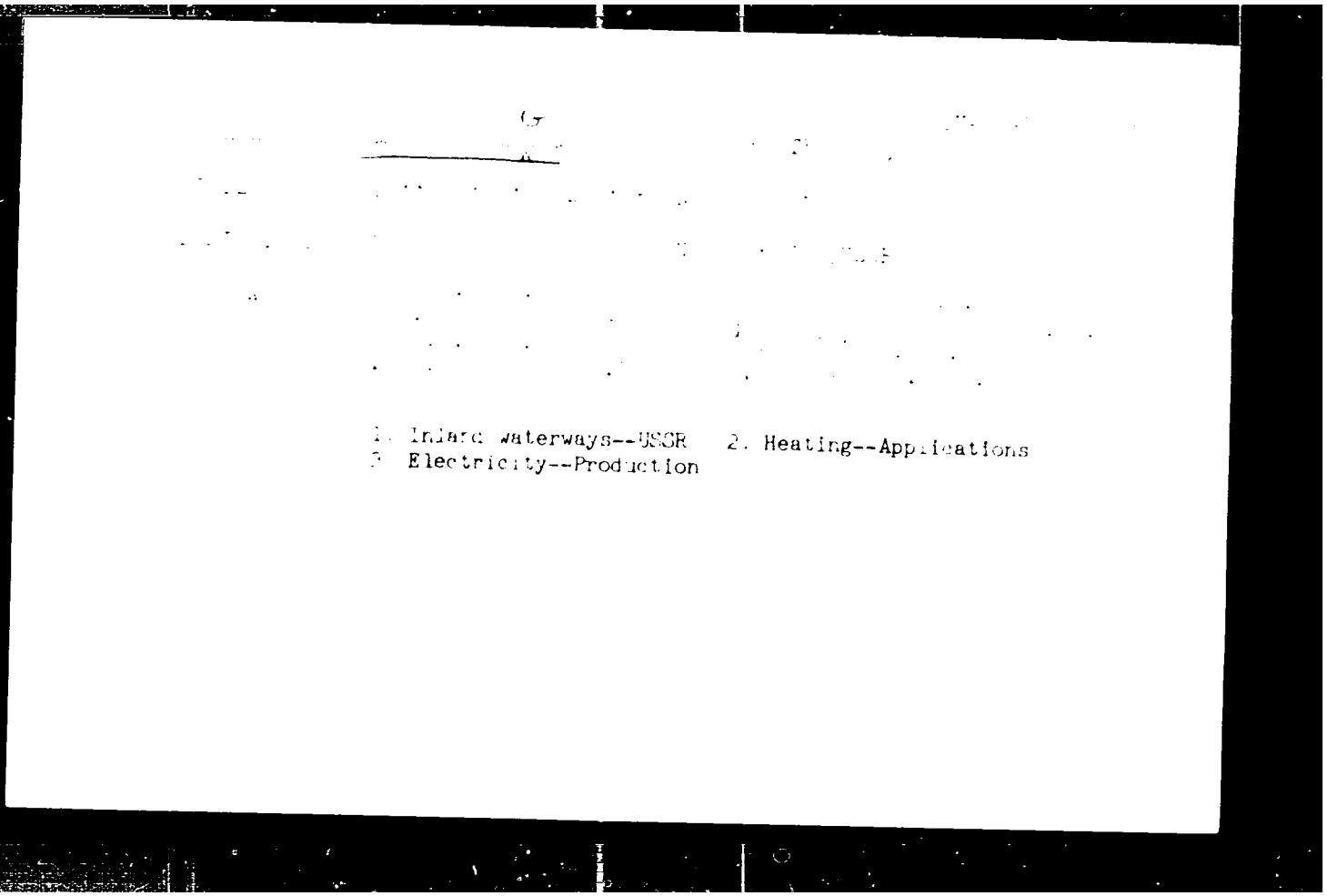
1. Kafedra kozhnykh i venericheskikh bolezney (zav. - prof. [illegible]. Akovbyan) Tashkentskogo meditsinskogo instituta.

MIRAKOV, Gurgen Mirakovich; VORONOV, Ye.K., red.; KSENOFONTOVA, Ye.F., red.izd-va; LAVRENOVA, N.B., tekhn.red.

[Analysis of the financial operations of steamship lines and ports] Analiz finansovoi deiatel'nosti morskogo parokhodstva i porta. Moskva, Izd-vo "Morskoi transport," 1959. 120 p. (MIRA 12:5)
(Harbors--Accounting) (Steamboat lines--Accounting)

RABINOVICH, Emmanuil Abramovich; SUROUCHEV, Vladimir Dmitriyevich; MIRAKOV, N.A., red.; FRIDKIN, A.M., tekhn.red.

[Collection of problems in general electric engineering] Sbornik zadach po obshchei elektrotekhnike. Izd. 3-e. Moskva, Gos. energ. izd-vo, 1958. 239 p. (MIRA 11:5)
(Electric engineering--Problems, exercises, etc.)



1. Inland waterways--USSR 2. Heating--Applications
3. Electricity--Production

MIRAKOV, S.G.

Feasibility and necessity of expanding the underground gasification of Georgian coals. Podzem.gaz.ugl. no.2:69-70 '59.
(MIRA 12:9)

1. Sovnarkhoz Gruzinskoy SSR.
(Georgia--Coal gasification, Underground)

MIRAKOV, S.G., gornyy inzhener

All-Union congress on dressing and using low-grade manganese ores in the production of manganese alloys. Gor.zhur. no.5:76 My '61. (MIRA 14:6)

(Manganese ores) (Ore dressing—Congresses)

MIRAKOV, V.Ye.

Principle of majorants for Chebyshev's method. Usp.mat.nauk 11 no.3: 171-174 My-Je '56. (MLRA 9:9)
(Functional equations) (Spaces, Generalized)

MIRAKOV, V.Ye.

The majorant principle and the method of tangent parabolas for nonlinear functional equations. Dokl. AN SSSR 113 no.5:977-979 Ap '57. (MIRA 10:7)

1. Moskovskiy fiziko-tekhnicheskiy institut. Predstavleno akademikom A.N. Kolmogorovym.

(Functional equations)

MIHAROV, V. Ye.

Studies of Mechanics and Applied (Cont.) 1 3

Mathematics, Moscow, Oboronglz, 1 , 1 p. (ed. Sokolovskiy, V. .

free surface, 5) Interaction of reflected waves

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MIRAKOV, V.Ye.

Convergence of the method of tangent hyperbolas for nonlinear functional equations under Cauchy-type conditions. Trudy MFTI no.1: 204-217 '58. (MIRA 12:1)
(Functional equations)

MIRAKOV, V.Ye.

Convergence of the Chebyshev method for nonlinear functional equations under a Cauchy-type condition. Trudy MFTI no.5:146-153 '60. (MIRA 13:10)

(Functional equations) (Convergence)

MIRAKYAN, G.M.

Ob odnoy funktsii, naimeneye uklonyayu shcheysya ot nulya. L., Trudy vtorogo Vsesoyuzn. matem. S"ezda (1936).
Sur une nouvelle fonction quis'-ecarte le moins possible de zero. Khrk, zap. matem. T-va (4), 12 (1936), 41-48

SO: Mathematics in the USSR, 1917-1947
edited by Kurosh, A.G.,
Markushevich, A.I.,
Rashevskiy, P.K.
Moscow-Leningrad, 1948

MIRAKYAN, G.

Mirakyan, G. Sur la convergence d'une formule interpolatoire. C. R. (Doklady) Acad. Sci. URSS (N.S.) 51, 87-90 (1946).

Let $E(x,\mu)=\sum_{n=0}^{\infty}c_n(\mu)x^n$ be a family of entire functions depending on the positive parameter μ, with nonnegative coefficients $c_n(\mu)$. The following two further assumptions are made. (1) For every $x>0$ we have $\liminf [E(x,\mu)]^{1/\mu}>0$ as $n\to\infty$ and $\mu\to\infty$; (2) $\lim_{\mu\to\infty} E_x'(x,\mu)/\mu E(x,\mu)=1$. It is then shown that a convergent interpolation formula can be derived from $E(x,\mu)$ as follows. Let $f(x)$ be given continuous in $[\rho,\tau]$ $(0<\rho<\tau<\infty)$. Let now m (integer) and μ both tend to infinity through such sequences of values that $\liminf (m/\mu)>\tau$. Suppose that $|f(x)|<M$ in $[\rho,\tau]$, and let the definition of $f(x)$ be extended to values of $x=k/\mu$ $(k=0,1,\cdots,m)$, falling outside $[\rho,\tau]$, in such a way that $|f(x)|<M$ and such that $f(x)$ is right-continuous at $x=\tau$ and left-continuous at $x=\rho$. Then

$$\lim \sum_{k=0}^{m} \frac{c_k(\mu)x^k}{E(x,\mu)} f(k/m)=f(x),$$

uniformly in the range $\rho\le x\le\tau$. *I. J. Schoenberg.*

Source: Mathematical Reviews, 1948, Vol. 9, No. 1

MIRAK'YAN, G.M.

One convergent process of approximating continuous functions.
Dokl.AN Arm. SSR 16 no.2:33-37 '53. (MIRA 9:10)

1. Odesskiy gosudarstvennyy universitet imeni I.I. Mechnikova. Predstavleno A.L. Shaginyanom.
(Convergence) (Functions, Continuous)

MIRAK'YAN, Gaydzag Mironovich; TIKHONOVA,E.P., redaktor; GAVRILOV,S.S., tekhnicheskiy redaktor

[Right circular cylinder] Priamoi krugovoi tsilindr. Moskva, Gos.izd-vo tekhniko-teoret. lit-ry, 1955. 38 p. (MLRA 9:3)
(Cylinder (Mathematics))

Call Nr: AF 110882

Transactions of the Third All-union Mathematical Congress (Cont.) Moscow Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp.

Mention is made of Voronovskaya, Ye.V. and Bernshteyn, S. N.

There is 1 USSR reference.

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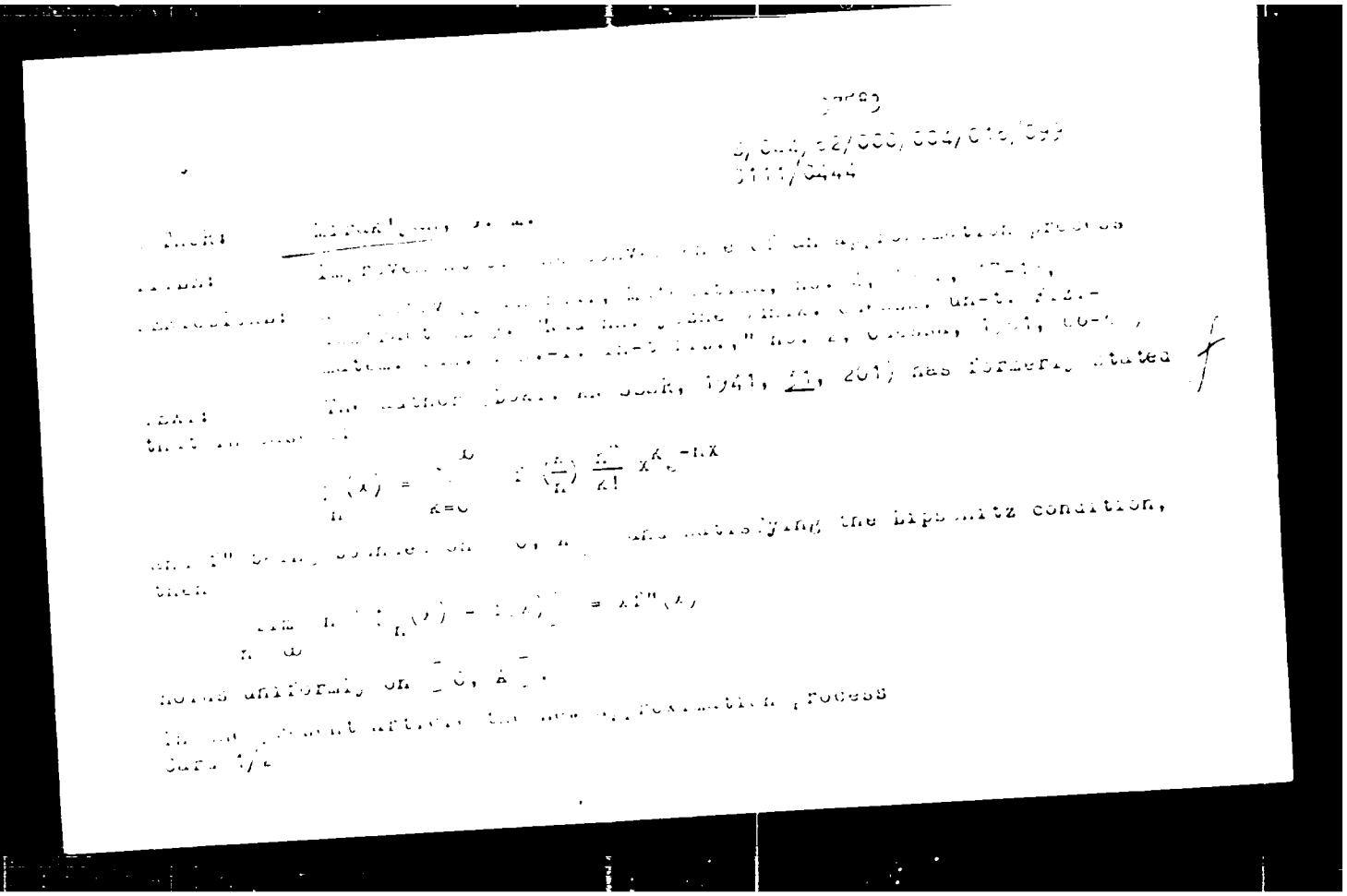

$$X_{n,2k}(x) = \Phi_n(x) - \frac{\Phi_n'(x)}{2!}\mu_2(x) + \cdots + \frac{\Phi_n^{(2k)}(x)}{(2k)!}\mu_{2k}(x).$$

$$\mu_{2j}(x) = \sum_{0}^{\infty} (n - x)^{2j} Y_n(x).$$

MIRAKYAN, G.M. [deceased]

Approximation of [illegible] functions by [illegible] Bernstein polynomials. Dokl. AN SSSR [illegible] no.[illegible]982-984 [illegible]

1. Odesskoye vyssheye inzhenernoye [illegible] uchilishche. Predstavleno akademikom [illegible]. Bernshteynom.

MIRAK'YAN, M.G., student fiz.-mat.fakul'teta; GAVRILOV, M.I. [Havrylov, M.I.], nauchnyy rukovoditel', doktor fiz.-mat. nauk, prof.

Improving the congruence of one method for the approximate solution of functional equations. Pratsi Od.un. Zbir.stud. rob. 149 no.5:121-124 '59. (MIRA 13:4)

1. Odesskiy gosudarstvennyy universitet.
(Functional equations)

MIRAK'YAN, M.G. [Mirak'ian, M.H.]

Existence of a regular solution to a system of nonlinear differential equations of first order in the vicinity of a singular point. Dop. AN URSR no.4:454-457 '64. (MIRA 17:5)

1. Odesskiy politekhnicheskiy institut. Predstavleno akademikom AN UkrSSR I.Z.Shtokalo.

ACCESSION NR: AP4026834 S/0041/64/016/002/0246/0250

AUTHOR: Mirak'yan, M. G.

TITLE: Existence of a regular solution for a system of ordinary differential equations in a neighborhood of a fixed singular point

SOURCE: Ukrainskiy matematicheskiy zhurnal, v. 16, no. 2, 1964, 246-250

TOPIC TAGS: regular solution, ordinary differential equation, fixed singular point, asymptotic behavior, singular point, formal power series, regular function

ABSTRACT: The author studies the system of equations

$$z^{\sigma}\frac{dw_1}{dz} = za_{0,0}(z) + a_{1,0}(z)w_1 + a_{0,1}(z)w_2 + \sum_{k_1+k_2=2}^{\infty} a_{k_1,k_2}(z)w_1^{k_1}w_2^{k_2},$$

$$z^{\sigma}\frac{dw_2}{dz} = zb_{0,0}(z) + b_{1,0}(z)w_1 + b_{0,1}(z)w_2 + \sum_{k_1+k_2=2}^{\infty} b_{k_1,k_2}(z)w_1^{k_1}w_2^{k_2}, \qquad (1)$$

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ACCESSION NR: AP4026834

where the functions

$$a_{ij}(z) = \sum_{k=0}^{\infty} a_{ij}^{(k)} z^k \text{ и } b_{ij}(z) = \sum_{k=0}^{\infty} b_{ij}^{(k)} z^{(k)} \quad (i, j = 0, 1, 2, \ldots)$$

are regular for $|z| \leq \rho_1$. Generally, the right parts of system (1) are assumed to be regular functions of z, w_1, w_2 for

$$|z| < Q_1, \quad |w_1| < Q_2, \quad |w_2| < Q_3. \qquad (2)$$

The author studies the asymptotic behavior of the solution of system (1) in a neighborhood of the point $z = 0$, which for the given system is a singular point. The results obtained by him are an immediate extension and generalization of the work done by him (O poryadke rosta koeffitsiyentov formal'ny*kh resheniy odnogo klassa differentsial'ny*kh uravneniy, Nauchn. zap. Odessk. politekhn. in-ta, t. 46, 1962) and L. V. Chepuynoy, (Pro asimptotichnu poveiinku rozv'yazkiv odnogo klasu zvichaynikh neliniynikh diferentsial'nikh rivnyan' pershogo poryadku, Pratsi ODU, t. 151, 1961). He seeks the solution of the system in the form of formal power

Card 2/4

series

$$w_1 = a_1 z + a_2 z^2 + \ldots + a_n z^n + \ldots,$$
$$w_2 = \beta_1 z + \beta_2 z^2 + \ldots + \beta_n z^n + \ldots. \qquad (3)$$

The author proves a theorem asserting the existence of a regular solution along a ray L satisfying certain conditions. The relation between the formal solutions of system (1), represented in the form of power series (2), and regular functions $w_1^{(0)}(z)$ and $w_2^{(0)}(z)$ are established in the following form. 1. For sufficiently small t on each ray L satisfying a certain condition, there exists an uncountable set of solutions of system (1) which are regular on L for $0 < t < t_0$ and are asymptotically represented respectively by the series (2). 2. Under certain conditions, on each ray L determined by another condition for $0 < t < t_0$, there exists one and only one solution $w_1^{(0)}(z)$ and $w_2^{(0)}(z)$ of system (1) which is regular on L and is asymptotically represented by the series (2). He determines certain other properties of these solutions. The obtained results can be generalized to the case of a system of n equations of analogous form. Orig. art. has:

ACCESSION NR: AP4026834

8 formulas.

ASSOCIATION: none

SUBMITTED: 030ct62 DATE ACQ: 16Apr64 ENCL: 00

SUB CODE: MM NO REF SOV: 003 OTHER: 002

Card 4/4

ACCESSION NR: AP4030388 S/0021/64/000/004/0454/0457

AUTHOR: Mirak"yan, M. G. (Mirak'yan, M. G.)

TITLE: Existence of analytical solutions of a system of first order differential equations about a particular point

SOURCE: AN UkrRSR. Dopovidi, no. 4, 1964, 454-457

TOPIC TAGS: first order differential equation, first order equation, analytical solution, point equation

ABSTRACT: This article deals with the question of analytical solutions of nonlinear differential equations

$$z^{p}\cdot\frac{dw_k}{dz}=z\cdot a_{00}^{(k)}(z)+a_{11}^{(k)}(z)w_1+\dots+a_{1n}^{(k)}(z)\cdot w_n+$$
$$+\sum_{l=\alpha_1+\dots+\alpha_n+2}^{\infty}a_{ij}^{(k)}(z)\cdot w_{\alpha_1}w_{\alpha_2}\dots w_{\alpha_n}$$

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ACCESSION NR: AP4030388

in the neighborhood of a particular point z = 0. In the case when p = 2 a connection is found between the analytical solutions of this system and the formal solutions in the form of power series.

ASSOCIATION: Odes'ky*y politekhnichny*y insty*tut (Polytechnic Institute)

SUBMITTED: 26Jun63	DATE ACQ: 30Apr64	ENCL: 00
SUB CODE: MA	NO REF SOV: 004	OTHER: 000

Card 2/2

YERMOLAYEVA, Ye.V.; MIRAK'YAN, M.M.

Using the electromotive force method in investigating solid phases containing iron oxides at high temperature. Ukr.khim.zhur. 28 no.7: 816-824 '62. (MIRA 15:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov.
(Iron oxides) (Electromotive force)

DANIYELYAN, G.A.; MIRAKYAN, M.M.

Experimental substitution of the stomach following its resection and gastrectomy by a segment from the large intestine. Eksper. khir. i anest. 9 no.5:27-30 S-O '64.

(MIRA 18:11)

1. Khirurgicheskoye otdeleniye (zav. G.A.Daniyelyan) Instituta rentgeno-radiologii i onkologii (direktor - chlen-korrespondent AMN SSSR prof. V.A.Fanardzhyan) AMN SSSR, Yerevan.

L 1612-66 EWT(m)/EPF(c)/EWP(t)/EWP(b) IJP(c) JD

ACCESSION NR: AP5021664 UR/0080/65/038/008/1725/1731
532.13+54-143+541.45

AUTHOR: Yermolayeva, Ye. V; Guzenko, G. F.; Mirak'yan, M. M.

TITLE: Determination of the viscosity of spinellide melts at temperatures up to 2500 C

SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 8, 1965, 1725-1731

TOPIC TAGS: metal melting, fluid viscosity, aluminum silicate/GOI viscometer

ABSTRACT: The experimental furnace contained a newly developed measuring unit consisting of an upper and lower carbon crucible. The upper crucible contains the sample to be tested, has a conical bottom with a capillary, and is closed on top by a carbon stopper with an opening for temperature measurement. The lower crucible has the form of a drinking glass and the melt flows down into it through the capillary from the upper crucible. A diagram of the apparatus is shown. The method of viscosity determination proposed here is based on the dependence of the rate of flow through the capillary on hydrostatic pressure above the capillary and viscosity of the liquid. The experimental unit was calibrated at room temperature

Card 1/2

against a liquid of known viscosity. The viscosity of three component aluminosilicate melts at temperatures up to 1700 C were measured on this viscosity unit and on a rotating viscometer Type GOI. Results agreed well. Data were also taken on the viscosity of spinellide melts at temperatures up to 2200C. These data, as well as some taken at higher temperatures, were not considered reliable due to large weight losses from the samples as a result of sublimation. However, it is claimed that this unit can be used for measuring the viscosity of aggressive oxide melts at temperatures up to 2500 C. "In conclusion, the authors express their thanks to L. I. Karyakin for his valuable advice on processes for reduction of spinellide samples." Orig. art. has: 1 figure and 4 tables

ASSOCIATION: Ukrainskii nauchno-issledovatel'skii institut ogneuporov (Ukrainian Research Institute for Refractory Materials)

SUBMITTED: 04Jun63 ENCL: 00 SUB CODE: GC, MM

NR REF SOV: 008 OTHER: 000

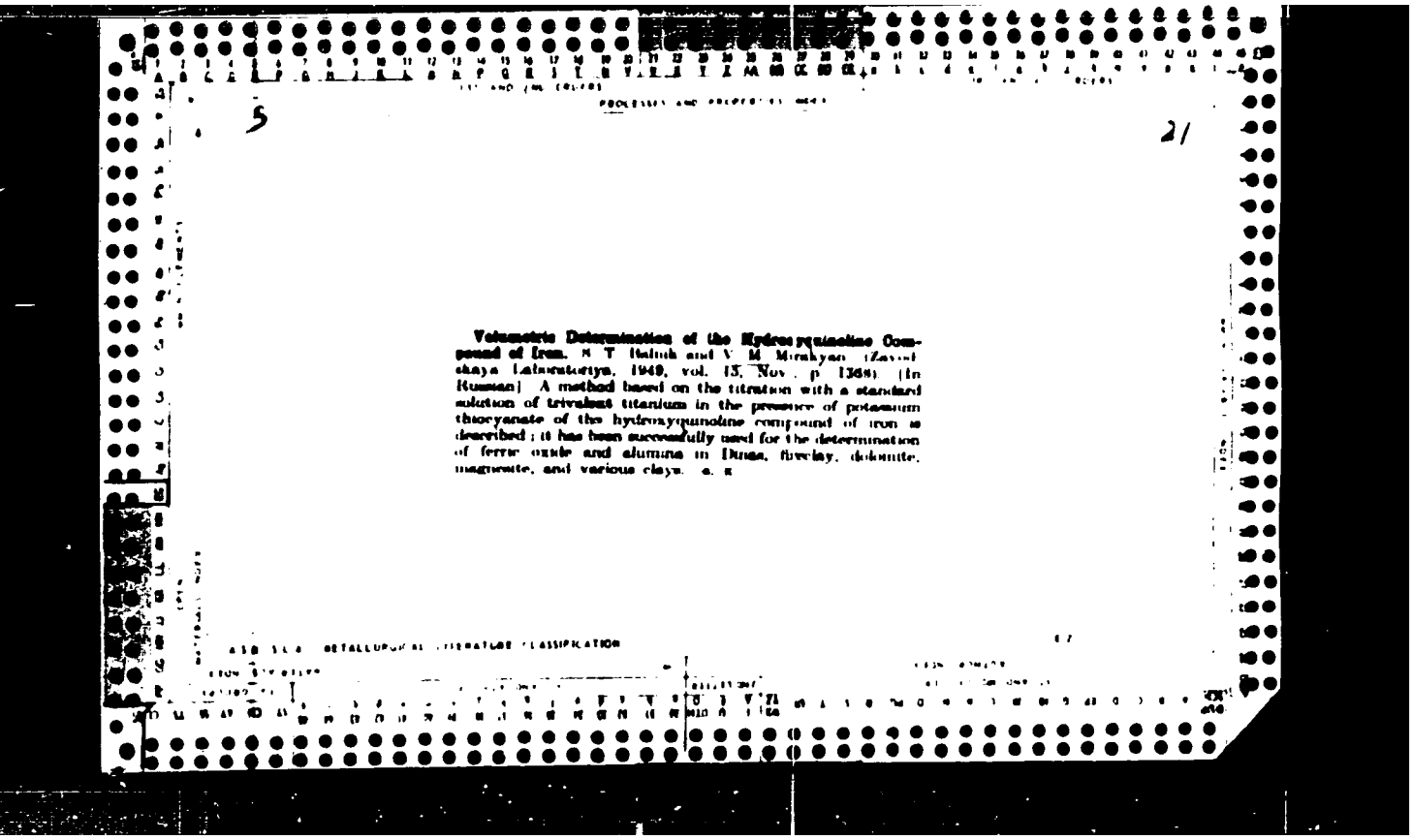
[illegible]KY'N, M.Ye.

Superficial [illegible] workers [illegible]. [illegible] derm. [illegible] ven. 39 n [illegible]. [illegible] 19[illegible]

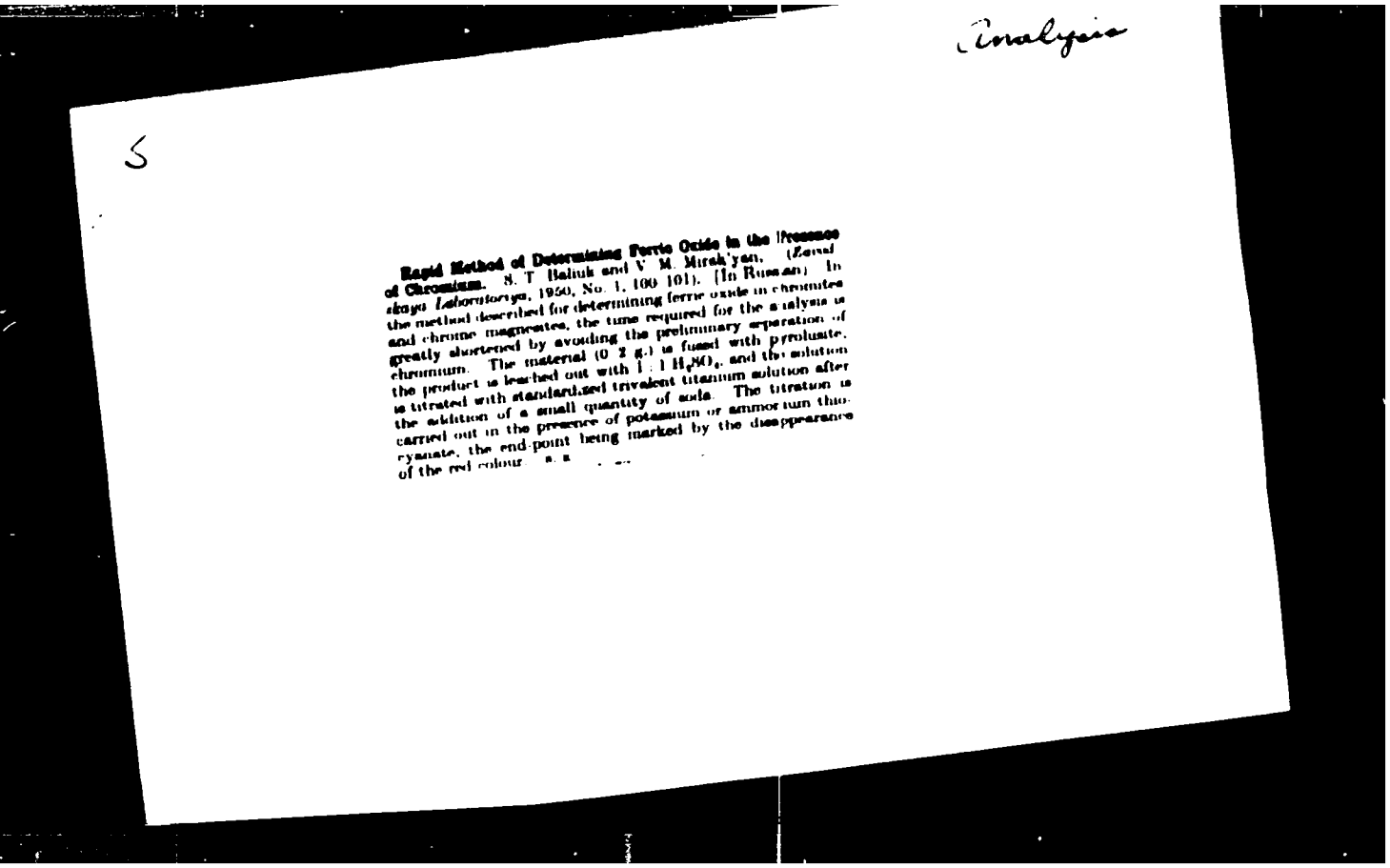
.. Kafedra kozhnykh i vener[illegible] bolezney [illegible]. - dotsent [illegible].D. Ter-Grig[illegible]ryan Yerevanskogo med[illegible]tsinskogo [illegible]ta. Nauchnyy rukovod[illegible] - prof. [illegible] [illegible]yevich. [illegible] [illegible]ly 15, 196[illegible].

MIRAKIYAN V.M.

The Determination of Ferrous Iron in Chromite and Chrome-Magnesite Refractories. S. F. Baliuk and V. M. Mirakyan. (Zavodskaya Laboratoriya, 1949, vol. 15, Aug., p. 1004). (In Russian). The use of an acid mixture which has been previously treated with permanganate is recommended for the determination of ferrous iron in chromite and chrome-magnesite refractories. --S.K.



Volumetric Determination of the Hydroxyquinoline Compound of Iron. S T Bailik and V M Mirskyan (Zavodskaya Laboratoriya, 1949, vol. 15, Nov., p 1368) (In Russian) A method based on the titration with a standard solution of trivalent titanium in the presence of potassium thiocyanate of the hydroxyquinoline compound of iron is described; it has been successfully used for the determination of ferric oxide and alumina in limes, fireclay, dolomite, magnesite, and various clays. e. g



Analysis

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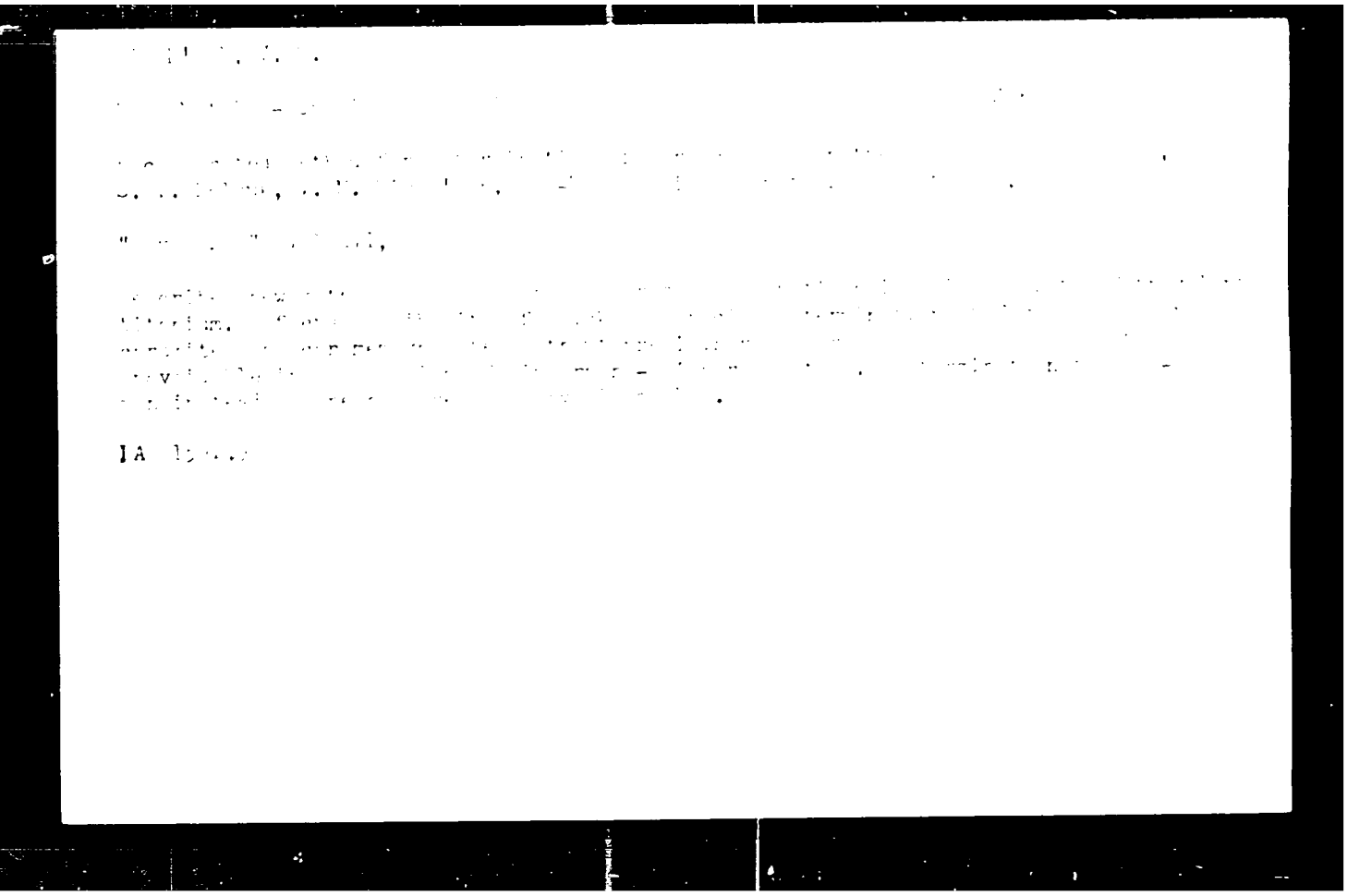
Rapid Method of Determining Ferric Oxide in the Presence of Chromium. S. T. Baliuk and V. M. Mirak'yan. (*Zavod. skaya Laboratoriya*, 1950, No. 1, 100-101). [In Russian] In the method described for determining ferric oxide in chromites and chrome magnesites, the time required for the analysis is greatly shortened by avoiding the preliminary separation of chromium. The material (0·2 g.) is fused with pyrolusite, the product is leached out with 1·1 H_2SO_4, and the solution is titrated with standardised trivalent titanium solution after the addition of a small quantity of soda. The titration is carried out in the presence of potassium or ammonium thiocyanate, the end-point being marked by the disappearance of the red colour.



KRYZHANOVSKAYA, I.A., kand.tekhn.nauk; MIRAK'YAN, V.M., inzh.; [illegible], inzh.; KHOLODNYY, A.G., inzh.

Hydration of clinker alkali minerals. Cement 31 no.5:10-12 S-O '65. (MIRA 18:9)

1. Vsesoyuznyy institut po proyektirovaniyu i nauchno-issledovatel'skim rabotam "Yuzhgiprotsement".